N00204.AR.005452
NAS PENSACOLA
5090.3a

LETTER REGARDING FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REVIEW OF CONDITIONAL SITE REHABILITATION COMPLETION ORDER FOR SITE CLOSURE RISK MANAGEMENT OPTIONS LEVEL II TACAN FACILITY BUILDING 1917 NAS PENSACOLA FL
8/9/2016
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Jonathan P. Steverson
Secretary

August 9, 2016

Ms. Patty Marajh-Whittemore
Remedial Project Manager
ITP Gulf Coast
Naval Facilities Engineering Command Southeast
Attn: AJAX Street, Building 135N
P.O. Box 30A
Jacksonville, FL 32212-0030

Subject: **Conditional Site Rehabilitation Completion Order (SRCO)**
Tactical Air Navigation (TACAN) Building 1917
Naval Air Station Pensacola
Pensacola, Escambia County
Facility ID # 17/9802359
OCULUS ID# DOD_11_3473

Dear Ms. Marajh-Whittemore:

The Waste Cleanup Program has reviewed the Request for Site Closure – Risk Management Options (RMO) Level II, TACAN Building 1917, dated August 2015 (received August 18, 2015), located at Naval Air Station (NAS) Pensacola, Florida. Maps showing the location of the TACAN Building 1917 facility at NAS Pensacola and the location of the "contaminated site" (i.e., contaminant plume) for which this Order is being issued are attached as Exhibits 1 and 2 and are incorporated by reference herein.

The contamination, which resulted from a discharge that was discovered on October 29, 2002, consisted of diesel fuel that was found inside the generator room and outside the building to the south-southeast during a routine maintenance inspection of the generator. The emergency generator has a day tank which receives fuel from an above-ground storage tank also located within the Building 1917 facility. The Request for Site Closure, RMO Level II, is supported by earlier submittals, prepared pursuant to the requirements of Chapter 62-780, Florida Administrative Code (F.A.C.), which can be found in the Department's document repository at: http://depedms.dep.state.fl.us/Oculus/servlet/login.

Based on the documentation submitted with the Request for Site Closure, RMO Level II and other submitted documents, the Department has reasonable assurance that the United States Navy has met the criteria in Chapter 62-780, F.A.C., including the commitments set forth in the technical submittals with respect to the implementation of engineering controls and recordation of institutional controls. The technical submittals indicate that acceptable Alternative Cleanup Target Levels (ACTL's) have been established for soil and groundwater contaminants remaining at the above-referenced contaminated site, in conjunction with appropriate engineering and institutional controls. Therefore, you have satisfied the

site rehabilitation requirements for the above-referenced contaminated site and are released from any further obligation to conduct site rehabilitation at the contaminated site, except as set forth below. See the attached tables (Exhibit 3), incorporated by reference herein, which include information regarding the contaminants, affected media, applicable cleanup target levels, and the ACTL's established for the contaminated site that is the subject of this Order.

A Land Use Control Implementation Plan for TACAN Building 1917 was developed pursuant to the Naval Air Station Pensacola Memorandum of Agreement and will be documented in the Naval Air Station Pensacola Base Master Plan and is attached and incorporated by reference as Exhibit 4.

Failure to meet the following requirements will result in the revocation of this Order:

(a) You are required to properly plug and abandon all monitoring wells, injection wells, extraction wells, and sparge wells unless these wells are otherwise required for compliance with a local ordinance or another cleanup within 60 days of receipt of this Order. The monitoring wells must be plugged and abandoned in accordance with the requirements of Rule 62-532.500(5), F.A.C. A Well Plugging Report shall be submitted within 30 days of well plugging;

(b) Any current or future real property owner of the above-referenced contaminated site must comply with the provisions contained within the above-referenced Land Use Control Implementation Plan (attached); and

(c) If the current or future real property owner of the above-referenced contaminated site proposes to remove the institutional or engineering controls, the real property owner shall obtain prior written approval from the Department. The removal of the controls shall be accompanied by the immediate resumption of site rehabilitation or implementation of other approved controls, unless it is demonstrated to the Department that the criteria of subsection 62-780.680(1), F.A.C., are met.

Further, in accordance with Chapter 376.30701(4), Florida Statutes (F.S.), upon completion of site rehabilitation, additional site rehabilitation is not required unless it is demonstrated that:

(a) Fraud was committed in demonstrating site conditions or completion of site rehabilitation;

(b) New information confirms the existence of an area of previously unknown contamination which exceeds the site-specific rehabilitation levels established in accordance with Section 376.30701(2),F.S., or which otherwise poses the threat of real and substantial harm to public health, safety, or the environment;

(c) The level of risk is increased beyond the acceptable risk established under Section 376.30701(2), F.S., due to substantial changes in exposure conditions, such as a change in land use from nonresidential to residential use. Any person who changes the land use of the site, thereby causing the level of risk to increase beyond the acceptable risk level, may be required by the department to undertake additional remediation measures to ensure that

human health, public safety, and the environment are protected consistent with Section 376.30701, F.S.; or

(d) A new discharge of pollutants or hazardous substances occurs at the site subsequent to the issuance of this Order.

Legal Issues

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57, F.S., within **21** days of receipt of this Order. The procedures for petitioning for a hearing are set forth below.

Persons affected by this Order have the following options:

A. If you choose to accept the Department's decision regarding this Conditional SRCO, you do not have to do anything. This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order.

B. If you choose to challenge the decision, you may do the following:

1. File a request for an extension of time to file a petition for hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order. Such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for hearing; or

2. File a petition for administrative hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order.

Please be advised that mediation of this decision pursuant to section 120.573, F.S., is not available.

How to Request an Extension of Time to File a Petition for Hearing

For good cause shown, pursuant to Rule 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for hearing. Such a request must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from Ms. Marajh-Whittemore, Naval Facilities Engineering Command Southeast (NAVFAC SE), shall mail a copy of the request to Ms. Marajh-Whittemore/NAVFAC SE, at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for administrative hearing must be made.

How to File a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900

Commonwealth Boulevard, MS 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from Ms. Marajh-Whittemore/NAVFAC SE, shall mail a copy of the petition to Ms. Marajh-Whittemore/NAVFAC SE, at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under sections 120.569 and 120.57, F.S.

Pursuant to subsection 120.569(2), F.S., and Rule 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information:

a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the site owner's name and address, if different from the petitioner; the DEP facility number; and the name and address of the facility;
b) A statement of when and how each petitioner received notice of the Department's action or proposed action;
c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order. Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided to the Department pursuant to meetings with the Department.

Judicial Review

Any party to this Order has the right to seek judicial review of it under section 120.68, F.S., by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Agency Clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department (see below).

Questions

Any questions regarding the Department's review of your Request for Site Closure – Risk Management Option Level II should be directed to David Grabka at 2600 Blair Stone Road, Tallahassee, Florida,

32399-2400, Mail Station 4535, or (850) 245-8997 or david.grabka@dep.state.fl.us. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850)245-2242. Contact with any of the above does not constitute a petition for administrative hearing or request for an extension of time to file a petition for administrative hearing.

Sincerely,

Peter Cornais, Administrator
Waste Cleanup Program
Division of Waste Management

PC/dpg

ec: David Grabka, FDEP–BWC – david.grabka@dep.state.fl.us
File

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to
§120.52 Florida Statutes, with the
designated Department Clerk, receipt
of which is hereby acknowledged.

Jessica A. Orr

08/10/2016

Clerk
(or Deputy Clerk)

Date

Enclosures (Exhibits 1, 2, 3 and 4)

Exhibit 1

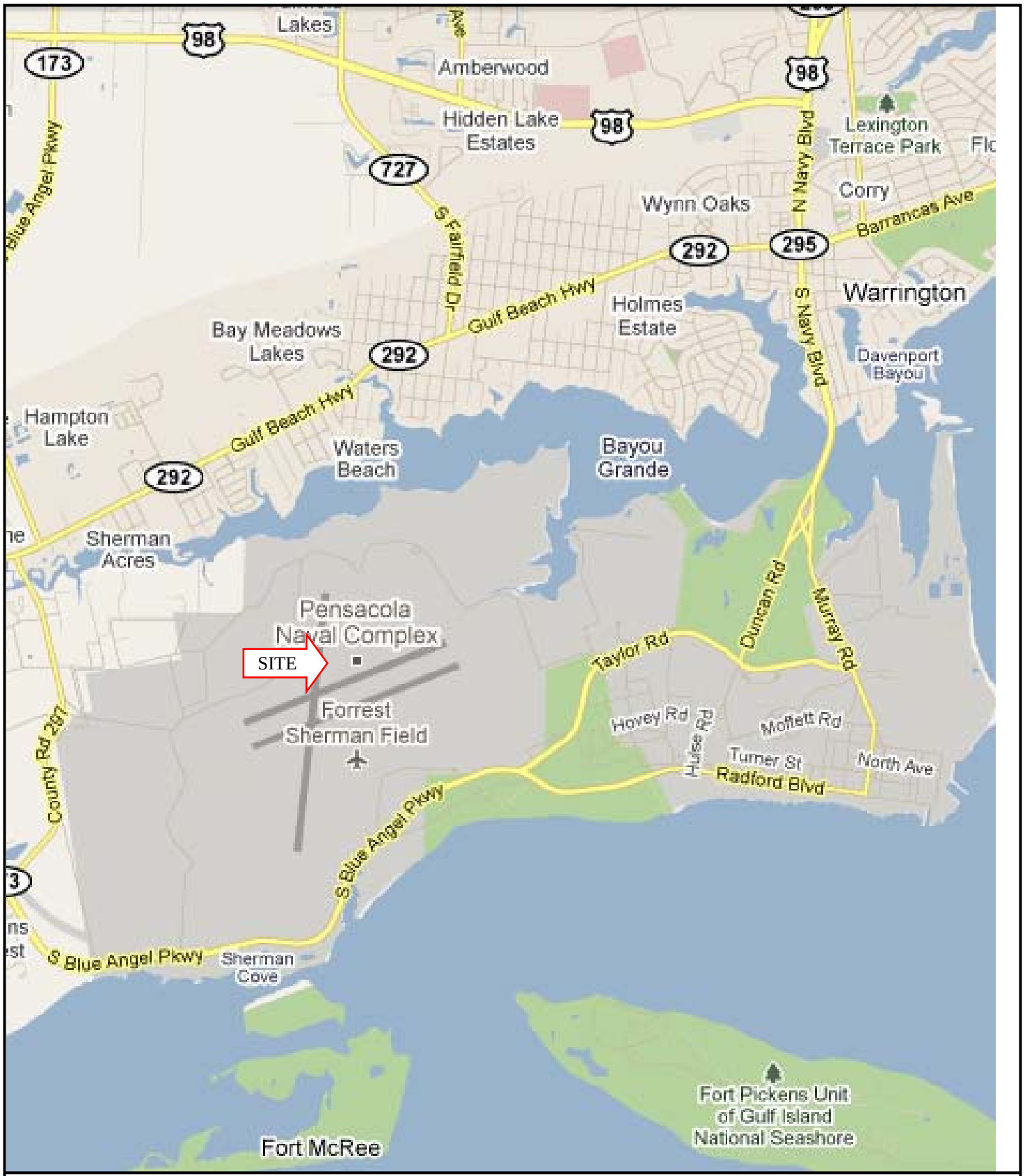


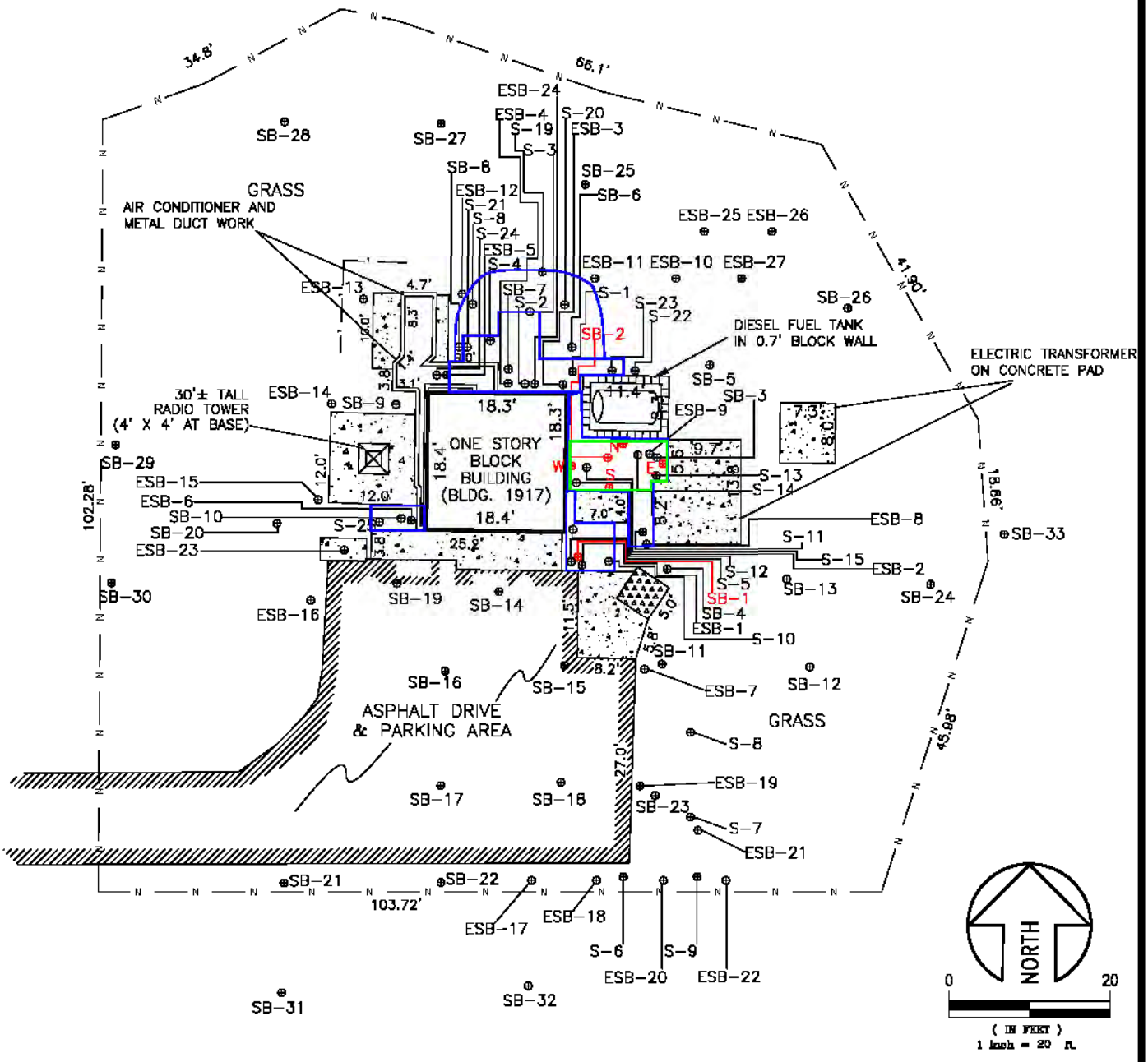
FIGURE 1 - SITE LOCATION MAP

AerostarSES LLC	TACAN BUILDING 1917 NAS PENSACOLA PENSACOLA, ESCAMBIA COUNTY, FLORIDA FDEP FACILITY ID# 17/9802359	DRAWN BY: SAD REFERENCE: MAP OF PENSACOLA, FLORIDA PREPARED BY: GOOGLE MAPS

Exhibit 2

LEGEND

A.P.O.	A PORTION OF....
—— N ——	8' CHAIN LINK SECURITY FENCE
—1 —— 1 —— 1 —	6' WOODEN PRIVACY FENCE
	CONCRETE
⊕ SB-12	AEROSTAR SOIL BORING (9/17-18/2003)
⊕ ESB-12	BARCOR SOIL BORING (2/4/2003)
⊕ S-9	BARCOR SOIL BORING (2/10/2003)
⊕ N,E,S,W	IAG SOIL BORING (11/13/2007)
	METAL HATCH
	BARCOR EXCAVATION (2/2003)
	IAG EXCAVATION (11/2007)



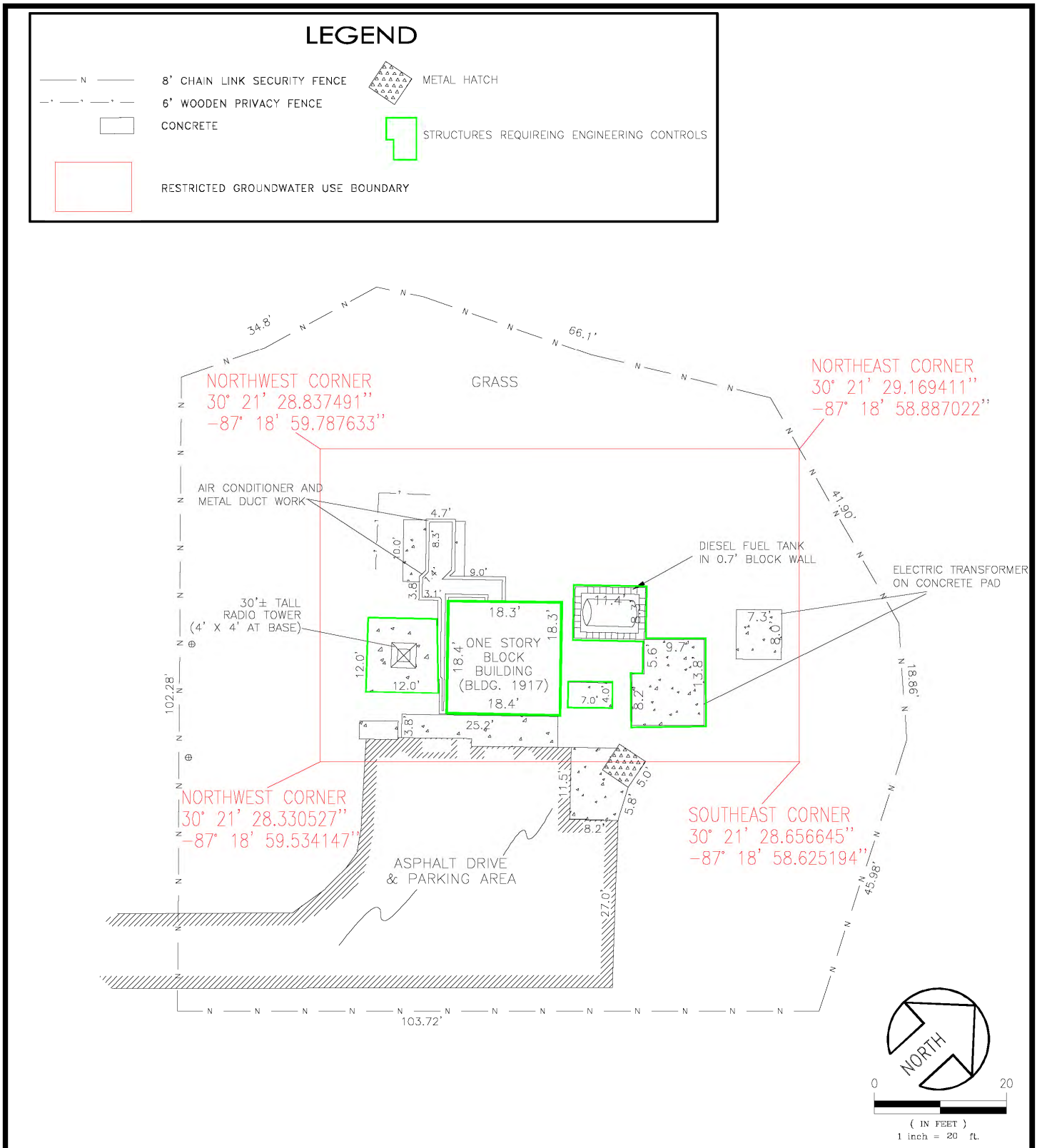
JOB #: M3010.0125.0001.24

FIGURE 2 – HISTORICAL SOIL BORING LOCATIONS

AerostarSES LLC

TACAN BUILDING 1917
NAS PENSACOLA
PENSACOLA, ESCAMBIA COUNTY, FLORIDA
FDEP FACILITY ID# 17/9802359

SCALE: 1" = 20'-0"
DATE:NOVEMBER 2014
DRAWN BY: PMF



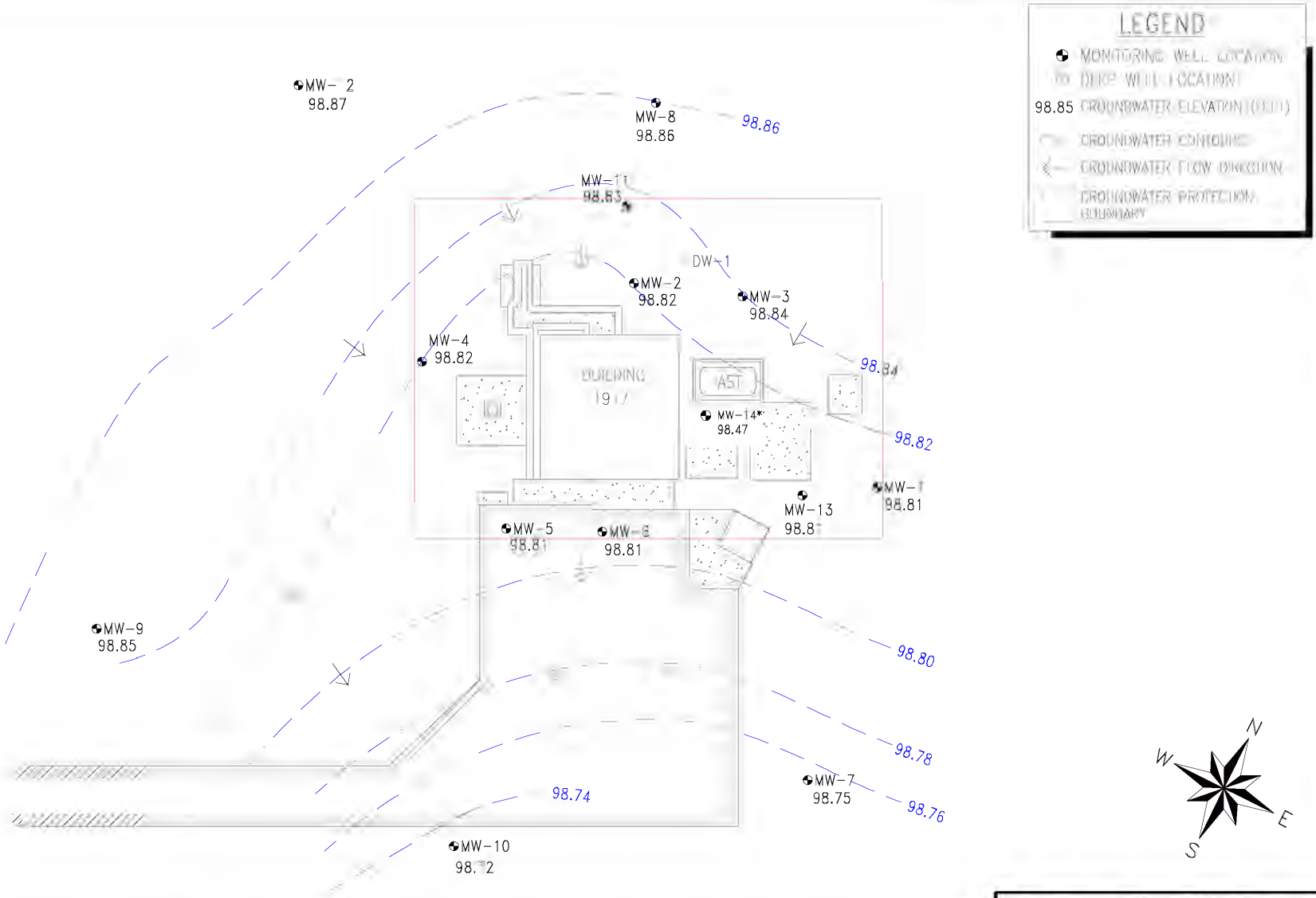
JOB #: M3010.0125.0001.24

FIGURE 3 – PROPOSED ENGINEERING CONTROLS AND RESTRICTED GROUNDWATER USE BOUNDARY

AerostarSES LLC

TACAN BUILDING 1917
NAS PENSACOLA
PENSACOLA, ESCAMBIA COUNTY, FLORIDA
FDEP FACILITY ID# 17/9802359

SCALE: 1" = 20'-0"
DATE:FEBRUARY 2015
DRAWN BY: PMF



JOB # M3010.0125.0001.24

FIGURE 4 – GROUNDWATER ELEVATION MAP (MARCH 30, 2011)

AerostarSES LLC

TACAN BUILDING 1917
NAS PENSACOLA
PENSACOLA, ESCAMBIA COUNTY, FLORIDA
FDEP FACILITY ID# 17/9802359

SCALE: 1" = 20'-0"
DATE: DECEMBER 2015
DRAWN BY: DR

Exhibit 3

TABLE 1: HISTORICAL SOIL LABORATORY ANALYTICAL SUMMARY

Facility Name: NAS Pensacola - TACAN Building 1917

Facility ID: 17/9802359

Table Data compiled from Historical Reports on 11/19/2014

Results are in milligrams per kilogram (mg/kg)
fbls = feet below land surface
OVA-FID = Organic Vapor Analyzer equipped with a Flame Ionization Detec

ppm = parts per million
U = Not Detected
FAC = Florida Administrative Code
MTBE = Methyl-tert-butyl-ether

TRPH = Total Recoverable Petroleum Hydrocarbons
* 62-777 SCTLs Revised 4/2005
440 = boring location excavated

Sample ID	Consultant	Date Collected	Sample Depth (fbls)	Net OVA-FID Reading (ppm)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Naphthalene (mg/kg)	1-Methylnaph-thalene (mg/kg)	2-Methylnaph-thalene (mg/kg)	TRPH (mg/kg)
Residential Direct Exposure Limits 62-777 FAC					**1.1**	**1,100 /1,500***	**380 / 7,500***	**5,900 / 130***	**3200 /4,400***	**40 /55***			**340 / 460***
Commercial Direct Exposure Limits 62-777-FAC					**1.6 / 1.7***	**8,400 / 9,200***	**2,600 / 60,000***	**40,000 / 700***	**22,000 / 24,000***	**270 /300***			**2,500 / 2,700***
Leachability Groundwater Limits 62-777-FAC					**0.007**	**0.6**	**0.5**	**0.2**	**0.2 / 0.09***	**1.7 /1.2***	**3.1***	**8.5***	**340**
ESB-1	BARCOR	2/4/2003	0.5-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-2	BARCOR	2/4/2003	0.5-1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-3	BARCOR	2/4/2003	0.5-1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-4	BARCOR	2/4/2003	0.5-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-5	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-6	BARCOR	2/4/2003	0.5-1	440	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/4/2003	2	701	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/4/2003	3	293	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-7	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-8	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-9	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-10	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-11	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-12	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-13	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-14	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-15	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-16	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-17	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-18	BARCOR	2/4/2003	0.5-1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-19	BARCOR	2/4/2003	0.5-1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-20	BARCOR	2/4/2003	0.5-1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-21	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-22	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-23	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-24	BARCOR	2/4/2003	0.5-1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-25	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-26	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
ESB-27	BARCOR	2/4/2003	0.5-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Facility Name: NAS Pensacola - TACAN Building 1917

Facility ID: 17/9802359

Table Data compiled from Historical Reports on 11/19/2014

Results are in milligrams per kilogram (mg/kg)
fbls = feet below land surface
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ppm = parts per million
FAC = Florida Administrative Code
MTBE = Methyl-tert-butyl-ether

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* 62-777 SCTLs Revised 4/2005
440 = boring location excavated

Sample ID	Consultant	Date Collected	Sample Depth (fbls)	Net OVA-FID Reading (ppm)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Naphthalene (mg/kg)	1-Methylnaph-thalene (mg/kg)	2-Methylnaph-thalene (mg/kg)	TRPH (mg/kg)
Residential Direct Exposure Limits 62-777 FAC					**1.1**	**1,100 /1,500***	**380 / 7,500***	**5,900 / 130***	**3200 /4,400***	**40 /55***			**340 / 460***
Commercial Direct Exposure Limits 62-777-FAC					**1.6 / 1.7***	**8,400 / 9,200***	**2,600 / 60,000***	**40,000 / 700***	**22,000 / 24,000***	**270 /300***			**2,500 / 2,700***
Leachability Groundwater Limits 62-777-FAC					**0.007**	**0.6**	**0.5**	**0.2**	**0.2 / 0.09***	**1.7 /1.2***	**3.1***	**8.5***	**340**
S-1	BARCOR	2/10/2003	2.5	500	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-2	BARCOR	2/10/2003	1.5	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-3	BARCOR	2/10/2003	2.5	60	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-4	BARCOR	2/10/2003	2	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-5	BARCOR	2/10/2003	1.5	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-6	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-8	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-9	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-10	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-11	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-12	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-13	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-14	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-15	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1: HISTORICAL SOIL LABORATORY ANALYTICAL SUMMARY

Facility Name: NAS Pensacola - TACAN Building 1917

Facility ID: 17/9802359

Table Data compiled from Historical Reports on 11/19/2014

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OVA-FID = Organic Vapor Analyzer equipped with a Flame Ionization Detec

ppm = parts per million
U = Not Detected
FAC = Florida Administrative Code
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Sample ID	Consultant	Date Collected	Sample Depth (fbls)	Net OVA-FID Reading (ppm)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Naphthalene (mg/kg)	1-Methylnaph-thalene (mg/kg)	2-Methylnaph-thalene (mg/kg)	TRPH (mg/kg)
Residential Direct Exposure Limits 62-777 FAC					**1.1**	**1,100 /1,500***	**380 / 7,500***	**5,900 / 130***	**3200 /4,400***	**40 /55***			**340 / 460***
Commercial Direct Exposure Limits 62-777-FAC					**1.6 / 1.7***	**8,400 / 9,200***	**2,600 / 60,000***	**40,000 / 700***	**22,000 / 24,000***	**270 /300***			**2,500 / 2,700***
Leachability Groundwater Limits 62-777-FAC					**0.007**	**0.6**	**0.5**	**0.2**	**0.2 / 0.09***	**1.7 /1.2***	**3.1***	**8.5***	**340**
S-16	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-17	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-18	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-19	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-20	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-21	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-22	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-23	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-24	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-25	BARCOR	2/10/2003	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BARCOR	2/10/2003	2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-1	AEROSTAR	9/17/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/17/2003	1-2	1100	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-2	AEROSTAR	9/17/2003	0-1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/17/2003	1-2	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/19/2003	1-2	2000	**0.012**	0.79	0.019 U	**1.5**	0.019 U	0.43 U	NA	NA	**7900**
SB-3	AEROSTAR	9/17/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/17/2003	1-2	190	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1: HISTORICAL SOIL LABORATORY ANALYTICAL SUMMARY

Facility Name: NAS Pensacola - TACAN Building 1917

Facility ID: 17/9802359

Table Data compiled from Historical Reports on 11/19/2014

Results are in milligrams per kilogram (mg/kg)
fbls = feet below land surface
OVA-FID = Organic Vapor Analyzer equipped with a Flame Ionization Detec

ppm = parts per million
FAC = Florida Administrative Code
MTBE = Methyl-tert-butyl-ether

U = Not Detected

TRPH = Total Recoverable Petroleum Hydrocarbons
* 62-777 SCTLs Revised 4/2005
440 = boring location excavated

Sample ID	Consultant	Date Collected	Sample Depth (fbls)	Net OVA-FID Reading (ppm)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Naphthalene (mg/kg)	1-Methylnaph-thalene (mg/kg)	2-Methylnaph-thalene (mg/kg)	TRPH (mg/kg)
Residential Direct Exposure Limits 62-777 FAC					**1.1**	**1,100 /1,500***	**380 / 7,500***	**5,900 / 130***	**3200 /4,400***	**40 /55***			**340 / 460***
Commercial Direct Exposure Limits 62-777-FAC					**1.6 / 1.7***	**8,400 / 9,200***	**2,600 / 60,000***	**40,000 / 700***	**22,000 / 24,000***	**270 /300***			**2,500 / 2,700***
Leachability Groundwater Limits 62-777-FAC					**0.007**	**0.6**	**0.5**	**0.2**	**0.2 / 0.09***	**1.7 /1.2***	**3.1***	**8.5***	**340**
SB-4	AEROSTAR	9/17/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/17/2003	1-2	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/19/2003	1-2	100	0.0009 U	0.0009 U	0.0046 U	0.0018 U	0.0046 U	0.40 U	NA	NA	5.2
SB-5	AEROSTAR	9/17/2003	0-1	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/17/2003	1-2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/17/2003	2-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-6	AEROSTAR	9/17/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/17/2003	1-2	7	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-7	AEROSTAR	9/17/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/17/2003	1-2	7	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-8	AEROSTAR	9/17/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-9	AEROSTAR	9/17/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-10	AEROSTAR	9/17/2003	0-1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/17/2003	1-2	160	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-11	AEROSTAR	9/18/2003	0-1	40	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	2-3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-12	AEROSTAR	9/18/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-13	AEROSTAR	9/18/2003	0-1	70	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-14	AEROSTAR	9/18/2003	0-1	1100	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-3	335	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-15	AEROSTAR	9/18/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-16	AEROSTAR	9/18/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-17	AEROSTAR	9/18/2003	0-1	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2	65	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1: HISTORICAL SOIL LABORATORY ANALYTICAL SUMMARY

Facility Name: NAS Pensacola - TACAN Building 1917

Facility ID: 17/9802359

Table Data compiled from Historical Reports on 11/19/2014

Results are in milligrams per kilogram (mg/kg)
fbls = feet below land surface
OVA-FID = Organic Vapor Analyzer equipped with a Flame Ionization Detec

ppm = parts per million
FAC = Florida Administrative Code
MTBE = Methyl-tert-butyl-ether

U = Not Detected

TRPH = Total Recoverable Petroleum Hydrocarbons
* 62-777 SCTLs Revised 4/2005
440 = boring location excavated

Sample ID	Consultant	Date Collected	Sample Depth (fbls)	Net OVA-FID Reading (ppm)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Naphthalene (mg/kg)	1-Methylnaph-thalene (mg/kg)	2-Methylnaph-thalene (mg/kg)	TRPH (mg/kg)
Residential Direct Exposure Limits 62-777 FAC					**1.1**	**1,100 /1,500***	**380 / 7,500***	**5,900 / 130***	**3200 /4,400***	**40 /55***			**340 / 460***
Commercial Direct Exposure Limits 62-777-FAC					**1.6 / 1.7***	**8,400 / 9,200***	**2,600 / 60,000***	**40,000 / 700***	**22,000 / 24,000***	**270 /300***			**2,500 / 2,700***
Leachability Groundwater Limits 62-777-FAC					**0.007**	**0.6**	**0.5**	**0.2**	**0.2 / 0.09***	**1.7 /1.2***	**3.1***	**8.5***	**340**
SB-18	AEROSTAR	9/18/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-19	AEROSTAR	9/18/2003	0-1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-20	AEROSTAR	9/18/2003	0-1	75	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-21	AEROSTAR	9/18/2003	0-1	70	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/19/2003	0-1	70	0.0009 U	0.0009 U	0.0047 U	0.0018 U	0.0047 U	0.38 U	NA	NA	26
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-22	AEROSTAR	9/18/2003	0-1	15	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-23	AEROSTAR	9/18/2003	0-1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-24	AEROSTAR	9/18/2003	0-1	30	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	30	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-25	AEROSTAR	9/18/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-26	AEROSTAR	9/18/2003	0-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-27	AEROSTAR	9/18/2003	0-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-28	AEROSTAR	9/18/2003	0-1	24	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-29	AEROSTAR	9/18/2003	0-1	15	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-30	AEROSTAR	9/18/2003	0-1	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-31	AEROSTAR	9/18/2003	0-1	28	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	30	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1: HISTORICAL SOIL LABORATORY ANALYTICAL SUMMARY

Facility Name: NAS Pensacola - TACAN Building 1917

Facility ID: 17/9802359

Table Data compiled from Historical Reports on 11/19/2014

Results are in milligrams per kilogram (mg/kg)
fbls = feet below land surface
OVA-FID = Organic Vapor Analyzer equipped with a Flame Ionization Detec

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Sample ID	Consultant	Date Collected	Sample Depth (fbls)	Net OVA-FID Reading (ppm)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Naphthalene (mg/kg)	1-Methylnaph-thalene (mg/kg)	2-Methylnaph-thalene (mg/kg)	TRPH (mg/kg)
Residential Direct Exposure Limits 62-777 FAC					**1.1**	**1,100 /1,500***	**380 / 7,500***	**5,900 / 130***	**3200 /4,400***	**40 /55***			**340 / 460***
Commercial Direct Exposure Limits 62-777-FAC					**1.6 / 1.7***	**8,400 / 9,200***	**2,600 / 60,000***	**40,000 / 700***	**22,000 / 24,000***	**270 /300***			**2,500 / 2,700***
Leachability Groundwater Limits 62-777-FAC					**0.007**	**0.6**	**0.5**	**0.2**	**0.2 / 0.09***	**1.7 /1.2***	**3.1***	**8.5***	**340**
SB-32	AEROSTAR	9/18/2003	0-1	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-33	AEROSTAR	9/18/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
RW-3	AEROSTAR	9/18/2003	0-1	1200	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	1500	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	AEROSTAR	9/18/2003	0-1	15	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	AEROSTAR	9/18/2003	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	AEROSTAR	9/18/2003	0-1	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AEROSTAR	9/18/2003	1-2.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	AEROSTAR	9/5/2006	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	AEROSTAR	9/5/2006	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	AEROSTAR	9/5/2006	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
DW-1	AEROSTAR	9/5/2006	0-1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Excavation North Wall	IAG	11/13/2007	2	30	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IAG	11/13/2007	3	105	**0.019**	0.48	0.039	**6.3**	0.049 U	**3.4**	**12.0**	**17.0**	NA
Excavation East Wall	IAG	11/13/2007	2	98	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IAG	11/13/2007	3	45	0.0088 U	0.027 U	0.033 U	0.10 U	0.049 U	**1.3**	**5.1**	5.8	NA
Excavation South Wall	IAG	11/13/2007	2	29	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IAG	11/13/2007	3	70	**0.022**	**0.81**	0.18	**7.0**	0.047 U	0.31	1.4	2.0	NA
Excavation West Wall	IAG	11/13/2007	2	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IAG	11/13/2007	3	100	**0.077**	**2.1**	0.056	**8.2**	0.047 U	0.74	2.7	3.7	NA

TABLE 2: HISTORICAL GROUNDWATER ELEVATION SUMMARY

Facility Name: **NAS PENSACOLA - TACAN BUILDING 1917** **FDEP Facility I** **17/9802359**

WELL NO.	MW-1			MW-2			MW-3			MW-4			MW-5		
DIAMETER (inches)	2			2			2			2			2		
WELL DEPTH	15.09			15.28			15.37			15.32			12.20		
SCREEN INTERVAL	5.09-15.09			5.28-15.28			5.37-15.37			5.32-15.32			2.20-12.20		
TOC ELEVATION	102.39			102.46			102.58			102.68			99.82		
DATE	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
9/23/2003	99.18	3.21	0.00	99.09	3.37	0.00	99.23	3.35	0.00	99.27	3.41	0.00	99.31	0.51	0.00
2/14/2007	98.82	3.57	0.00	98.84	3.62	0.00	98.82	3.76	0.00	98.88	3.80	0.00	98.90	0.92	0.00
1/4/2010	99.18	3.21	0.00	99.25	3.21	0.00	99.26	3.32	0.00	99.27	3.41	0.00	99.12	0.70	0.00
9/30/2010	96.87	5.52	0.00	96.86	5.60	0.00	96.87	5.71	0.00	96.86	5.82	0.00	96.82	3.00	0.00
12/23/2010	97.45	4.94	0.00	97.44	5.02	0.00	97.45	5.13	0.00	97.44	5.24	0.00	97.40	2.42	0.00
3/30/2011	98.81	3.58	0.00	98.82	3.64	0.00	98.84	3.74	0.00	98.82	3.86	0.00	98.81	1.01	0.00

WELL NO.	MW-6			MW-7			MW-8			MW-9			MW-10		
DIAMETER (inches)	2			2			2			2			2		
WELL DEPTH	12.22			15.34			15.10			15.14			15.23		
SCREEN INTERVAL	2.22-12.22			5.34-15.34			5.10-15.10			5.14-15.14			5.23-15.23		
TOC ELEVATION	99.63			101.96			102.32			102.40			102.48		
DATE	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
9/23/2003	99.26	0.37	0.00	99.20	2.76	0.00	99.24	3.08	0.00	99.29	3.11	0.00	99.25	3.23	0.00
2/14/2007	98.89	0.74	0.00	98.83	3.13	0.00	98.83	3.49	0.00	98.93	3.47	0.00	98.95	3.53	0.00
1/4/2010	99.13	0.50	0.00	99.16	2.80	0.00	99.92	2.40	0.00	99.29	3.11	0.00	99.15	3.33	0.00
9/30/2010	96.83	2.80	0.00	96.85	5.11	0.00	97.21	5.11	0.00	96.87	5.53	0.00	96.82	5.66	0.00
12/23/2010	97.41	2.22	0.00	97.43	4.53	0.00	97.79	4.53	0.00	97.45	4.95	0.00	97.40	5.08	0.00
3/30/2011	98.81	0.82	0.00	98.75	3.21	0.00	98.86	3.46	0.00	98.85	3.55	0.00	98.72	3.76	0.00

WELL NO.	MW-11			MW-12			MW-13			MW-14			DW-1		
DIAMETER (inches)	2			2			2			2			2		
WELL DEPTH	13.95			14.12			13.97			10.12			28.21		
SCREEN INTERVAL	3.95-13.95			2.12-14.12			3.97-13.97			2.12-10.12			23.21-28.21		
TOC ELEVATION	102.82			102.72			102.68			99.58			102.44		
DATE	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
9/19/2006	100.12	2.70	0.00	#####	2.70	0.00	99.68	3.00	0.00	96.58	3.00	0.00	99.44	3.00	0.00
2/14/2007	99.28	3.54	0.00	99.12	3.60	0.00	99.03	3.65	0.00	95.68	3.90	0.00	98.54	3.90	0.00
1/4/2010	99.22	3.60	0.00	99.57	3.15	0.00	99.16	3.52	0.00	99.17	0.41	0.00	98.97	3.47	0.00
9/30/2010	97.10	5.72	0.00	97.14	5.58	0.00	96.86	5.82	0.00	96.85	2.73	0.00	96.89	5.55	0.00
12/23/2010	97.68	5.14	0.00	97.72	5.00	0.00	97.44	5.24	0.00	97.43	2.15	0.00	97.47	4.97	0.00
3/30/2011	98.83	3.99	0.00	98.87	3.85	0.00	98.81	3.87	0.00	98.47	1.11	0.00	97.63	4.81	0.00

ELEV = Elevation **FP = Free Product**

DTW = Depth to Water **TOC = Top Of Casing**

TABLE 3: HISTORICAL GROUNDWATER LABORATORY ANALYTICAL SUMMARY

Facility Name: NAS Pensacola - TACAN Building 1917 **FDEP Facility ID#: 17/9802359**

Sample Location	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2-Dichloroethane	EDB	Hexachloro-butadiene	1,2,4-trichloro-benzene	Dichlorodifluoro-methane	Methylene Chloride	1,2-Dichloro-ethane	Carbon disulfide	Acetone	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Cumene
Ch. 62-777, F.A.C., GCTL		**1**	**40**	**30**	**20**	**20**		**0.02**	**0.4**	**70**	**1400**	**5**	**3**	**700**	**6300**	**10**	**10**	**0.8**
MW-1	09/23/03	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.197 U	0.257 U	0.509 U	0.179 U	NA	NA	0.45 U	0.359 I	7.80	**8.67**	0.176 U	2.64 U	3.63 I	0.234 U	0.211 U	0.187 U
	11/07/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/4/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	09/23/03	**3.4**	20	**37**	**250**	1.0 U	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.575 I	5.06	8.251 I	0.179 U	NA	NA	0.45 U	0.211 U	0.339 U	0.263 U	0.176 U	0.244 U	1.91 U	7.37	0.939 I	**0.992**
	11/07/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/5/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	09/23/03	1.0 U	4.0 U	1.4	2.0 U	1.0 U	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	**14.1**	0.197 U	22	17.3	1.63 I	NA	0.00520 U	0.45 U	0.211 U	0.339 U	0.263 U	0.176 U	0.244 U	1.91 U	9.85	0.773 I	**1.97**
	11/07/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/5/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/2010	0.34 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/23/2010	0.34 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/30/2011	0.34 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	09/23/03	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.197 U	0.257 U	0.509 U	0.179 U	NA	0.00520 U	0.45 U	0.211 U	0.339 U	0.971 I	0.176 U	0.244 U	1.91 U	0.234 U	NA	0.187 U
	11/06/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/5/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	09/23/03	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.197 U	0.257 U	0.509 U	0.179 U	NA	0.00520 U	0.45 U	0.211 U	1.52 I	1.45 I	2.20i	1.56 I	1.91 U	0.234 U	0.211 U	0.187 U
	11/06/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/4/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	09/23/03	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.197 U	0.257 U	<0.509	0.179 U	NA	0.00520 U	0.582 I	0.516 I	1.86 I	1.44 I	0.176 U	0.244 U	1.91 U	0.234 U	0.211 U	0.187 U
	11/06/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/4/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/2010	0.34 U	1.1 I	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/23/2010	0.34 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/30/2011	0.34 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	09/23/03	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.197 U	0.257 U	0.509 U	0.179 U	NA	0.00520 U	0.45 U	0.211 U	8	**9.34**	0.176 U	0.244 U	1.91 U	0.234 U	0.211 U	0.187 U
	11/06/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/4/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	09/23/03	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.197 U	0.257 U	0.509 U	0.179 U	NA	0.00520 U	0.45 U	0.211 U	0.339 U	0.263 U	0.176 U	0.244 U	1.91 U	0.234 U	0.211 U	0.187 U
	11/06/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/5/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	09/23/03	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.197 U	0.257 U	0.509 U	0.179 U	NA	0.00520 U	0.45 U	0.211 U	0.339 U	0.981 I	0.176 U	0.244 U	1.91 U	0.234 U	0.211 U	0.187 U
	11/06/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/4/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	09/23/03	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.197 U	0.257 U	0.509 U	0.179 U	NA	0.00520 U	0.45 U	0.211 U	6.37	**7.49**	0.176 U	0.244 U	1.91 U	0.234 U	0.211 U	0.187 U
	11/06/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/4/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	09/19/06	1.0 U	5.0 U	5.0 U	10 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.197 U	0.257 U	0.509 U	0.179 U	NA	<0.00520	0.45 U	0.211 U	7.58	**8.54 I**	0.176 U	0.244 U	1.91 U	0.234 U	0.211 U	0.187 U
	11/07/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/5/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	09/19/06	1.0 U	5.0 U	5.0 U	10 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.197 U	0.257 U	0.509 U	0.179 U	NA	0.00520 U	0.45 U	0.211 U	0.339 U	0.263 U	0.176 U	0.244 U	1.91 U	0.234 U	0.211 U	0.187 U
	11/06/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/5/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	09/19/06	1.0 U	5.0 U	5.0 U	10 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	0.197 U	0.257 U	0.509 U	0.179 U	NA	0.00520 U	0.45 U	0.211 U	7.98	**8.66**	0.176 U	4.02 I	1.91 U	0.234 U	0.211 U	0.187 U
	11/07/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/4/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/2010	0.34 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/23/2010	0.34 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/30/2011	0.34 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14	11/07/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/4/2010	**19**	0.50 U	24	**21**	2.0 I	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/2010	**1.4**	0.71 I	2.0 I	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/23/2010	0.34 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/30/2011	0.34 U	0.50 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DW-1	09/19/06	1.0 U	5.0 U	5.0 U	10 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/14/07	0.177 U	3.68	0.257 U	0.509 U	0.179 U	NA	0.00520 U	0.45 U	0.211 U	4.47 I	0.263 U	0.176 U	0.244 U	3.09 I	0.234 U	0.211 U	0.187 U
	11/07/08	0.30 U	0.70 U	0.50 U	1.6 U	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/5/2010	0.20 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LEGEND:

NA = Not Analyzed
DRY = Dry Well
U= Below Detection Limit
PQL = Practical Quantitation Limit
Results in micrograms per liter (ug/L)

GCTL = Groundwater Cleanup Target Level
F.A.C. = Florida Administrative Code
MDL = Method Detection Limit
TRPH = Total Recoverable Petroleum Hydrocarbons

I = Result Between MDL and PQL
MTBE = Methyl-Tert-Butyl-Ether
EDB = EthyldiBromide

TABLE 3: HISTORICAL GROUNDWATER LABORATORY ANALYTICAL SUMMARY

Facility Name: NAS Pensacola - TACAN Building 1917 **FDEP Facility ID#: 17/9802359**

Sample Location	Date	Acenaphthene	Acenaphtylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pryene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pryene	1-Methyl-naphthalene	2-Methyl-naphthalene	Total Lead	TRPHs
Ch. 62-777, F.A.C., GCTL		**20**	**210**	**2100**	**0.05**		**0.05**	**210**	**0.5**	**4.8**	**0.005**	**280**	**280**	**0.05**	**14**	**210**	**210**	**28**	**28**	**15**	**5000**
MW-1	09/23/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	5.00 U	100 U
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.0013 U	63 I
	11/07/08	0.017 U	0.0093 U	0.0069 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.012 U	0.010 U	0.014 U	0.017 U	0.014 U	NA	31 U
	1/4/2010	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.20 U	0.50 U	0.99 U	0.20 U	NA	110 I
MW-2	09/23/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	16	10 U	5.00 U	**5500**
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	5.06 I	0.053 U	0.137 U	0.636 I	0.373 U	0.102 U	0.0072 I	841.00
	11/07/08	0.055	0.0093 U	0.0069 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.110	0.0081 U	0.72	0.04	0.028	0.71	0.42	NA	36 U
	1/5/2010	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.97 U	0.19 U	NA	0.19 U
MW-3	09/23/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	5.00 U	100 U
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	5.06 I	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.0013 U	4290
	11/07/08	0.05	0.0093 U	0.0069 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.04	0.0081 U	0.012 U	0.010 U	0.014 U	0.16	0.014 U	NA	36 U
	1/5/2010	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.19 U	0.49 U	0.97 U	0.19 U	NA	140
	9/30/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	41 U
	12/23/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	17 U
	3/30/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	0.19 U
MW-4	09/23/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	5.00 U	100 U
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.058	74 I
	11/06/08	0.017 U	0.0093 U	0.0069 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.012 U	0.010 U	0.014 U	0.017 U	0.014 U	NA	34 U
	1/5/2010	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.19 U	0.49 U	0.97 U	0.19 U	NA	0.19 U
MW-5	09/23/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	5.00 U	100 U
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.0013 U	70 I
	11/06/08	0.017 U	0.0093 U	0.007 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.012 U	0.010 U	0.014 U	0.017 U	0.014 U	NA	41 U
	1/4/2010	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.20 U	0.49 U	0.98 U	0.20 U	NA	20 U
MW-6	09/23/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	5.00 U	100 U
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.0013 U	1160
	11/06/08	0.017 U	0.0093 U	0.007 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.52	0.010 U	0.014 U	0.91	0.014 U	NA	150
	1/4/2010	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.74 I	0.20 U	0.49 U	0.98 U	0.33 I	NA	17 U
	9/30/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	39 I
	12/23/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	1300
	3/30/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	1900
MW-7	09/23/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	5.00 U	100 U
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	**0.806**	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.0013 U	70 I
	11/06/08	0.017 U	0.0093 U	0.007 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.012 U	0.010 U	0.014 U	0.017 U	0.014 U	NA	34 U
	1/4/2010	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.20 U	0.50 U	0.99 U	0.20 U	NA	0.19 U
MW-8	09/23/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	5.00 U	100 U
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.0013 U	59 I
	11/06/08	0.017 U	0.0093 U	0.007 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.012 U	0.010 U	0.014 U	0.017 U	0.014 U	NA	34 U
	1/5/2010	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.19 U	0.49 U	0.97 U	0.19 U	NA	18 U
MW-9	09/23/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	6	100 U
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.0036 I	77 I
	11/06/08	0.017 U	0.0093 U	0.0069 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.012 U	0.010 U	0.014 U	0.017 U	0.014 U	NA	39 U
	1/4/2010	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.19 U	0.49 U	0.97 U	0.19 U	NA	130 I
MW-10	09/23/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	5.00 U	100 U
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.0013 U	75 I
	11/06/08	0.017 U	0.0093 U	0.0069 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.012 U	0.010 U	0.014 U	0.33	0.014 U	NA	34 U
	1/4/2010	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.19 U	0.49 U	0.97 U	0.19 U	NA	20 U
MW-11	09/19/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	2.4 I	107
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	**1.35**	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.00861 I	128
	11/07/08	0.017 U	0.0093 U	0.007 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.012 U	0.010 U	0.014 U	0.017 U	0.014 U	NA	32 U
	1/5/2010	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.19 U	0.49 U	0.97 U	0.19 U	NA	16 U
MW-12	09/19/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	1.4 I	78 I
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.0013 U	65 I
	11/06/08	0.017 U	0.0093 U	0.007 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.012 U	0.010 U	0.014 U	0.017 U	0.014 U	NA	29 U
	1/5/2010	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.49 U	0.19 U	0.49 U	0.97 U	0.19 U	NA	22 U
MW-13	09/19/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	1.5 I	158
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.0013 U	64 I
	11/07/08	0.017 U	0.0093 U	0.007 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.012 U	0.010 U	0.014 U	0.017 U	0.014 U	NA	34 U
	1/4/2010	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.49 U	0.99 U	0.20 U	NA	130
	9/30/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	40 U
	12/23/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	20 U
	3/30/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	21 U
MW-14	11/07/08	0.017 U	0.0093 U	0.0069 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.2	0.0081 U	0.29	0.24	0.090 U	1.4	1.4	NA	270
	1/4/2010	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**20**	0.20 U	0.014 U	15	10	NA	2300
	9/30/2010	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.2	0.20 U	0.49 U	15	10	NA	170
	12/23/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	680
	3/30/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	730
DW-1	09/19/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	10 U	1.6 I	274
	02/14/07	0.135 U	0.088 U	0.102 U	0.080 U	0.150 U	0.165 U	0.141 U	0.066 U	0.056 U	0.257 U	0.155 U	0.110 U	0.158 U	0.053 U	0.137 U	0.090 U	0.373 U	0.102 U	0.0013 U	103
	11/07/08	0.017 U	0.0093 U	0.0069 U	0.018 U	0.018 U	0.012 U	0.010 U	0.012 U	0.0084 U	0.014 U	0.017 U	0.018 U	0.0081 U	0.012 U	0.010 U	0.014 U	0.017 U	0.014 U	NA	36 U
	1/5/2010	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.49 U	0.20 U	0.49 U	0.98 U	0.20 U	NA	120

LEGEND:

NA = Not Analyzed
DRY = Dry Well
U= Below Detection Limit
PQL = Practical Quantitation Limit
Results in micrograms per liter (ug/L)

GCTL = Groundwater Cleanup Target Level
F.A.C. = Florida Administrative Code
MDL = Method Detection Limit
TRPH = Total Recoverable Petroleum Hydrocarbons

I = Result Between MDL and PQL
MTBE = Methyl-Tert-Butyl-Ether
EDB = EthyldiBromide

Exhibit 4

LAND USE CONTROL IMPLEMENTATION PLAN
TACAN BUILDING 1917

Naval Air Station (NAS) Pensacola
Pensacola, Florida

This Land Use Control Implementation Plan (LUCIP) is a component of the remedy proposed for Tacan Building 1917 being managed under the Florida Petroleum Cleanup Program. A Risk-Based Closure Request was prepared by Aerostar SES LLC. (Aerostar). The report documented that current site conditions are protective of human health, public safety, and the environment and there are no current human or ecological exposures to petroleum-related constituents in soil or groundwater. Based on the site's environmental data and risk assessment included in the closure request; a No Further Action Status, per RMO Level II in Chapter 62-780.680(2), Florida Administrative Code (F.A.C.), was recommended for the site.

1. SITE LOCATION

The site is located on the airfield in the central portion of NAS Pensacola and includes Building 1917 and the surrounding parking lot. The areas surrounding the facility are developed with the airfield runways. The site is developed with Building 1917, an AST containment area and various pieces of equipment on concrete pads.

NAS Pensacola is located in Escambia County, approximately five miles west of the Pensacola city limits. The approximate 5,000-acre installation was constructed in the 1800s. Prior to construction, the facility was undeveloped and sparsely vegetated. Land use at NAS Pensacola consists of various military housing, training, and support facilities, as well as large industrial complexes for major repairs and refurbishment of aircraft frames and engines.

2. SITE DESCRIPTION

Tacan Building 1917 is an active radar control facility. Soils at the site consist of dark brown medium grained sand, with the water table encountered from two to three feet below ground surface (bgs). The majority of the site soils are covered by the site building, the AST containment area, the various equipment pads, and the adjacent parking area.

Petroleum impacted soils are presumed to exist beneath the Tacan Building 1917 floor slab, beneath the AST containment area, beneath the radio tower base immediately southwest of Building 1917, beneath the transformer pad adjoining the AST containment area, and beneath the concrete slab between Building 1917 and the transformer pad previously described. Other impacted soils previously identified at the site were excavated in November 2007. Following completion of the third quarter of groundwater monitoring in March 2011, laboratory analytical results indicated all concentrations of the tested parameters were below their respective Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels (GCTLs).

Because site contamination is limited to subsurface soil, surface water runoff or potential migration of the petroleum-related constituent contamination to surface water is not expected to occur at the site. Also, because site contamination is limited to subsurface soil there is no exposure pathway for ecological receptors.

3. LAND USE CONTROL (LUC) OBJECTIVES

The objectives of implementing LUCs at Tacan Building 1917 are to prohibit the exposure to presumed impacted subsurface soils. The LUCs at Tacan Building 1917 protect human health by limiting exposure to the COCs in subsurface soil that exceed their respective Florida Cleanup Target Levels.

4. ESTABLISHMENT AND IMPLEMENTATION OF LUCS

NAS Pensacola will implement, maintain, and enforce LUCs; which will protect human health and the environment.

LUCs will be established and implemented as follows:

- NAS Pensacola will implement, monitor, maintain, and enforce the remedies at Tacan Building 1917 that protect human health and the environment in accordance with Chapter 62-770.68(2), F.A.C. The current recommendation for Tacan Building 1917 is No Further Action (NFA) with Controls (including prohibit residential use of the site and prohibit use of groundwater). The following LUCs will be implemented:

  1. Establish an Institutional Control (IC) to prohibit future use or reuse of the Site for residential or residential-like land uses unless prior written approval is obtained from the FDEP. Residential and residential-like land use restrictions prohibit uses including, but not limited to, any form of housing, any kind of school (including pre-schools, elementary schools, and secondary schools), child care facilities, playgrounds, and adult convalescent or nursing care facilities.

  2. Establish an IC to prohibit all uses of groundwater from the surficial aquifer underlying the Site including, but not limited to, human consumption, dewatering, irrigation, heating/cooling purposes, and industrial processes unless prior written approval is obtained from the FDEP. Any wells with a radius of influence that would draw water from within the Restricted Groundwater Use Boundary, identified in the Proposed Engineering Controls and Restricted Groundwater Use Boundary figure included in Attachment 1, would not be allowed. The Restricted Groundwater Use Boundary is identified by the following coordinates: Northeast Corner = 30° 21’ 29.169411’’, -87° 18’ 58.887022’’ / Southeast Corner = 30° 21’ 28.656645’’, -87° 18’ 58.625194’’ / Southwest Corner = 30° 21’ 28.330527’’, -87° 18’ 59.534147’’ / Northwest Corner = 30° 21’ 28.837491’’, -87° 18’ 59.787633’’.

  3. The current floor slabs of the structures in place at the Site will act as Engineering Controls (ECs) to prevent human contact with potentially impacted soil. The floor slabs to act as ECs are illustrated in the Proposed Engineering Controls and Restricted Groundwater Use Boundary figure included in Attachment 1. Alterations, removal, or destruction of the structures should not be conducted without prior authorization from FDEP and NAS Pensacola.

- The LUC objectives for Tacan Building 1917 are to protect human health by monitoring the existing ECs (floor slabs) to limit exposure to subsurface soils that are presumed to exceed the industrial direct exposure SCTLs for petroleum products.

- NAS Pensacola has administrative controls in the form of “dig permits” that require approval for projects involving construction or subsurface disturbance. The LUC will be documented in the NAS Pensacola Base Master Plan (BMP). After receiving notice from FDEP of Site Rehabilitation Closeout Order (SRCO) finalization, the Navy will update the NAS Pensacola BMP to reflect the LUCs selected in the SRCO for Tacan Building 1917. LUC information incorporated into the BMP will include a depiction of the Tacan Building 1917 boundaries shown on Attachment 1.

- NAS Pensacola will conduct annual inspections and provide annual certification to FDEP to verify compliance with the LUC requirement, objectives and controls in this LUCIP. The following LUC oversight and maintenance procedures will apply to Tacan Building 1917 in lieu of those otherwise specified in Section V of the NAS Pensacola LUC MOA (1999):

  1. Annual Site Inspections: Beginning upon notice by FDEP of SRCO finalization, NAS Pensacola personnel will conduct annual physical inspections of Tacan Building 1917 and provide annual certification to FDEP to verify compliance with the LUC requirements, objectives and controls in this LUCIP. Inspections will document any violations of these controls and confirm that all necessary LUCs have been implemented and are properly maintained.

  2. Compliance Reporting: Beginning upon notice by FDEP of SRCO finalization, the NAS Pensacola Installation Restoration Manager will provide to FDEP an annual LUC Compliance Certificate for Tacan Building 1917 consistent with Attachment 2.

- NAS Pensacola will provide prompt notice to FDEP (verbal report within 24 hours, written report within 5 days) if it discovers any activity at Tacan Building 1917 that is inconsistent with the LUCIP requirements, objectives, or controls; or any action that may interfere with the effectiveness of the ICs.

- NAS Pensacola will provide notice to FDEP at least six months prior to any transfer or sale of Tacan Building 1917 including transfers to private, state, or local entities so that FDEP can be involved in discussions to ensure that appropriate provisions are included in the transfer terms or conveyance documents to maintain effective ICs and ECs. If it is not possible for the facility to notify FDEP within six months prior to transfer or sale, than the facility will notify FDEP as soon as possible, but no later than 60 days prior to the transfer or sale of any property subject to ICs and ECs. In addition to the land transfer notice and discussion provisions above, The Navy further agrees to provide similar notice, within the same time frames, as to federal to federal transfer of property accountability and administrative control of Tacan Building 1917. Review and comment opportunities afforded to FDEP as to federal to federal transfers will be in accordance with all applicable federal laws.

5. DECISION DOCUMENT

Aerostar SES LLC (Aerostar), 2013. Request for Site Closure - Risk Management Options Level II, Tacan Building 1917, NAS Pensacola, Pensacola, Florida.

FDEP (Florida Department of Environmental Protection), Issued _____. Site Rehabilitation Closeout Order (SRCO) for Tacan Building 1917, NAS Pensacola, Pensacola, Florida.

6. OTHER PERTINENT INFORMATION

Except as specified in Section 5 above, all existing terms and conditions contained in the NAS Pensacola LUC MOA (1999) between Navy, FDEP and U.S. EPA shall apply to this site.

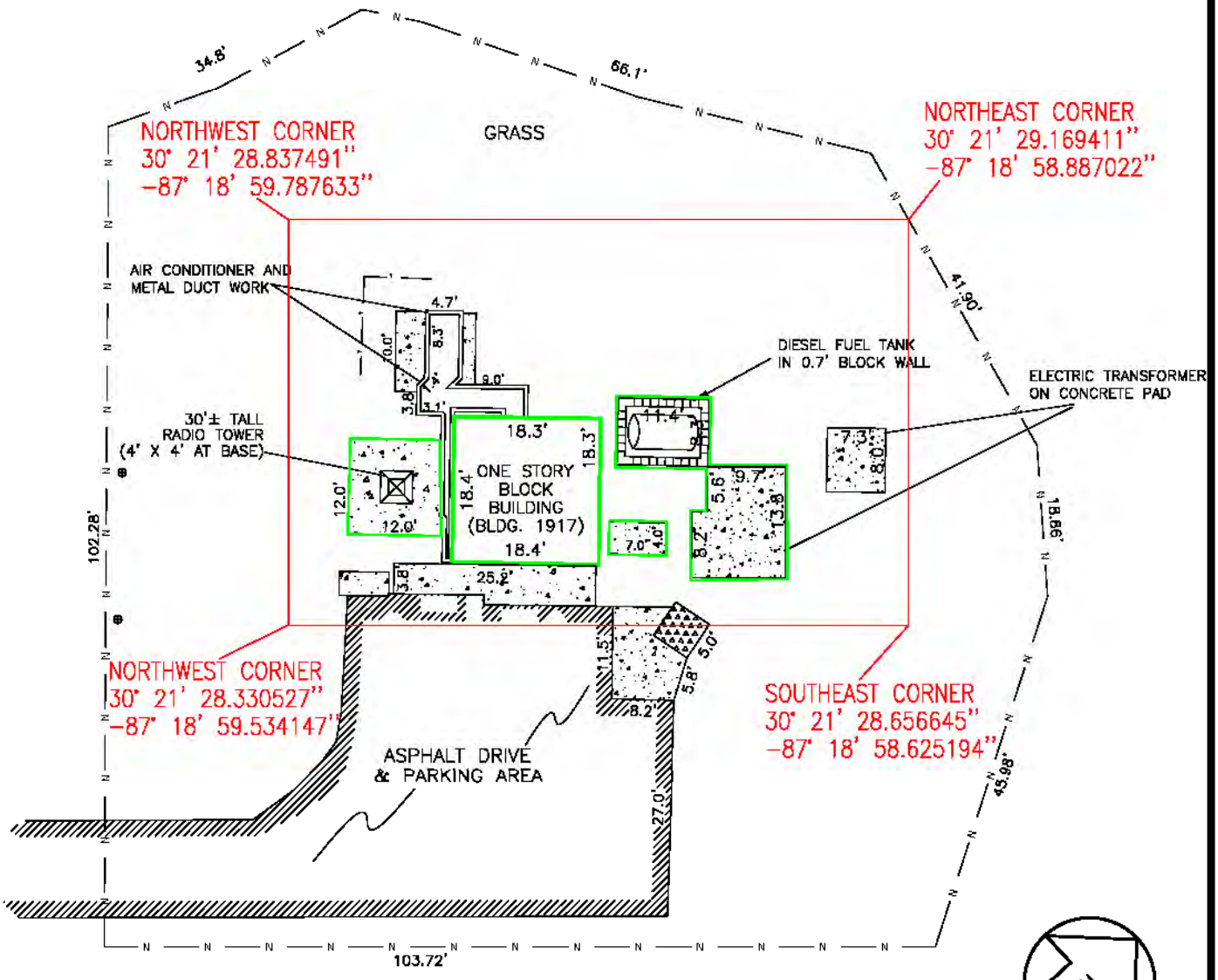
7. GEOGRAPHIC LOCATION WHERE LAND USE CONTROLS APPLY

The area in which LUC will be applied is shown on Attachment 1 of this LUCIP.

Attachment 1

LEGEND

- 8' CHAIN LINK SECURITY FENCE
- 6' WOODEN PRIVACY FENCE
- CONCRETE
- METAL HATCH
- STRUCTURES REQUIREING ENGINEERING CONTROLS
- RESTRICTED GROUNDWATER USE BOUNDARY



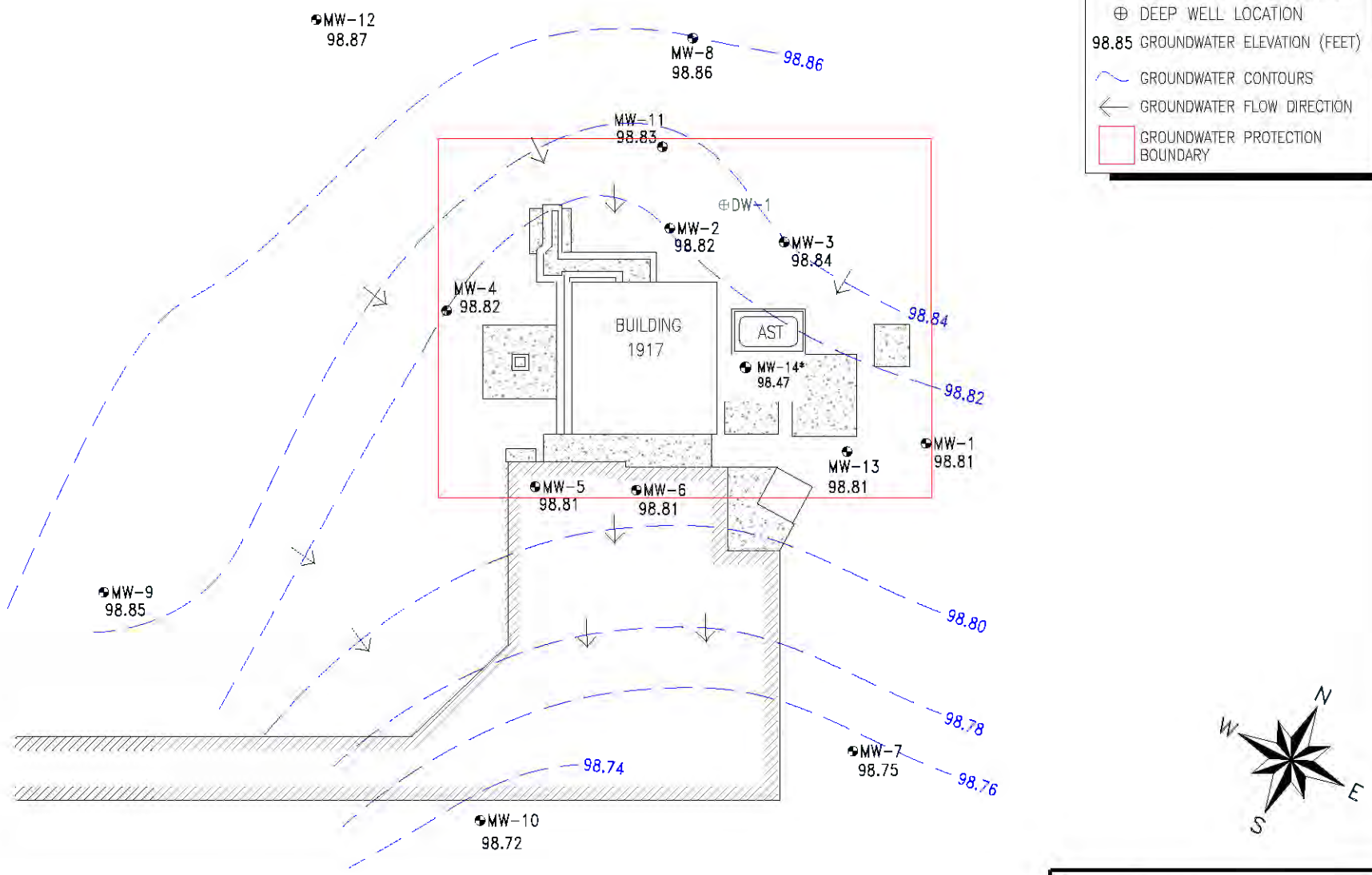
JOB #: M3010.0125.0001.24

PROPOSED ENGINEERING CONTROLS AND RESTRICTED GROUNDWATER USE BOUNDARY

AerostarSES LLC

TACAN BUILDING 1917
NAS PENSACOLA
PENSACOLA, ESCAMBIA COUNTY, FLORIDA
FDEP FACILITY ID# 17/9802359

SCALE: 1" = 20'-0"
DATE:FEBRUARY 2015
DRAWN BY: PMF



JOB # M3010.0125.0001.24

GROUNDWATER ELEVATION MAP (MARCH 30, 2011)

AerostarSES LLC

TACAN BUILDING 1917
NAS PENSACOLA
PENSACOLA, ESCAMBIA COUNTY, FLORIDA
FDEP FACILITY ID# 17/9802359

SCALE: 1" = 20'-0"
DATE: DECEMBER 2015
DRAWN BY: DR

Attachment 2

TACAN Building 1917 Annual LUC Compliance Certificate

Naval Air Station Pensacola
FL9170024567

Property Owner: NAVAL AIR STATION PENSACOLA

Property Address: Tacan Building 1917, NAS Pensacola, Florida

Is evaluation for all or a portion of the Tacan Building 1917 property? _____
If evaluating only a portion of the site, attach a figure identifying the portion being evaluated.

This evaluation covers the period from **1 January _____through 31 December_____**
Form shall be submitted by **1 March** of the year following the reporting period.

Certification Checklist

	In Compliance	Non-Compliance	See Comment
1) No residential use within the Site boundary	☐	☐	☐
2) No potable use of groundwater within the Restricted Groundwater Use Boundary	☐	☐	☐

I, the undersigned, herby certify that I am an authorized representative of the above named property owner and that the above described Land Use Controls have been complied with for the period noted. Alternately, any known deficiencies and owner's completed or planned actions to address such deficiencies are described in the attached Explanation of Deficiency(ies).

_____ _____
Signature – Greg Campbell (Navy) Date

_____ _____
Signature – Patty Whittemore (Navy) Date

_____ _____
Signature Date

_____ _____
Signature Date

Mail completed form(s) to:
Florida Dept of Environmental Protection
Division of Waste Management
Bureau of Waste Cleanup
Federal Programs Section
Attn: NAS Pensacola RPM; Mr. David Gabka
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Commanding Officer
Naval Facilities Engineering Command, Southeast
Attn: Environmental Restoration Division RPM; Ms. Patty Marajh-Whittmore
Building 903
Jacksonville, FL 32212-0030

Commanding Officer
Naval Air Station Pensacola
Attn: Environmental Department Coordinator; Mr. Greg Campbell
310 John Tower Road
Pensacola, FL 32508-5000